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A review of the impacts of climate variability and change on aeroallergens and their associated effects

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Abstract:

This report presents a survey of the current state of knowledge of the potential impacts of climate change and variability on aeroallergens -- pollen, mold, and indoor allergens—in the United States and the allergic diseases associated with them. Allergies are prevalent in the United States and impose substantial economic and quality-of-life burdens. A recent nationwide survey reported that 54.6 percent of people in the United States test positive for one or more allergens (American Academy of Allergy Asthma and Immunology [AAAAI], 1996–2005). Among specific allergens, dust mites, rye, ragweed, and cockroaches caused sensitization in approximately 25 percent of the population (Arbes et al., 2005).

Source: http://ofmpub.epa.gov/eims/eimscomm.getfile?p download id=490474

Resource Description

Exposure: M

weather or climate related pathway by which climate change affects health

Air Pollution, Precipitation, Temperature

Air Pollution: Allergens

Temperature: Fluctuations

Geographic Feature: M

resource focuses on specific type of geography

None or Unspecified

Geographic Location: M

resource focuses on specific location

Global or Unspecified

Health Impact: M

specification of health effect or disease related to climate change exposure

Dermatological Effect, Respiratory Effect, Other Health Impact

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Respiratory Effect: Asthma

Other Health Impact: allergic diseases

Mitigation/Adaptation: ™

mitigation or adaptation strategy is a focus of resource

Adaptation

Model/Methodology: **☑**

type of model used or methodology development is a focus of resource

Cost/Economic, Other Projection Model/Methodology

Other Projection Model/Methodology: discussion only

Population of Concern: A focus of content

Population of Concern: M

populations at particular risk or vulnerability to climate change impacts

Children

Resource Type: **№**

format or standard characteristic of resource

Review

Timescale: M

time period studied

Time Scale Unspecified

Vulnerability/Impact Assessment: **☑**

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content